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By: [Signature] Printed: Lyza Finuliar

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Tang et al.

Title: HUMAN TRANSMEMBRANE PROTEINS

Serial No.: 09/700,590

Filing Date: April 16, 2001

Examiner: Seharaseyon, J.

Group Art Unit: 1647

Box PCT

Commissioner for Patents

Washington, D.C. 20231

FEE TRANSMITTAL SHEET

Sir:

Transmitted herewith are the following for the above-identified application:

1. Return Receipt Postcard;
2. Response to Notice to Comply (2 pp.);
3. Copy of Notice to Comply dated June 10, 2002 (13 pg.);
4. Substitute Submission Under 37 CFR § 1.821-1.825 Sequence Listing (1 pg.);
5. Substitute Paper Copy of the Sequence Listing (117 pp.); and
6. One (1) Substitute CRF diskette containing the Sequence Listing.

The fee has been calculated as shown below:

☒ No additional Fee is required.

☒ Please charge Deposit Account No. 09-0108 in the amount of :

\$ 0

The Commissioner is hereby authorized to charge any additional fees required under 37 CFR 1.16 and 1.17, or credit overpayment to Deposit Account No. 09-0108. **A duplicate copy of this sheet is enclosed.**

Respectfully submitted,

INCYTE GENOMICS, INC.

Date: 10 July 2002

[Signature]

Diana Hamlet-Cox

Reg. No. 33,302

Direct Dial Telephone: (650) 845-4639

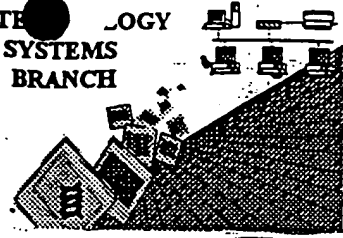
3160 Porter Drive
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RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/720,540
Source: 1647
Date Processed by STIC: 5-20-02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
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Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

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2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
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see page 7



1647

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/700,590

DATE: 05/30/2002

TIME: 10:12:26

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

3 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.
 4 TANG, Y. Tom
 5 LAL, Preeti
 6 HILLMAN, Jennifer L.
 7 YUE, Henry
 8 GUEGLER, Karl J.
 9 CORLEY, Neil C.
 10 BANDMAN, Olga
 11 PATTERSON, Chandra
 12 GORGONE, Gina A.
 13 KASER, Matthew R.
 14 BAUGHN, Mariah R.
 15 AU-YOUNG, Janice
 17 <120> TITLE OF INVENTION: HUMAN TRANSMEMBRANE PROTEINS
 19 <130> FILE REFERENCE: PF-0526 PCT
 C--> 21 <140> CURRENT APPLICATION NUMBER: US/09/700,590
 C--> 22 <141> CURRENT FILING DATE: 2001-04-16
 24 <150> PRIOR APPLICATION NUMBER: 60/087,260; 60/091,674; 60/102,954; 60/109,869
 W--> 25 <151> PRIOR FILING DATE: 1998-05-29; 1998-07-02; 1998-10-02; 1998-11-24
 27 <160> NUMBER OF SEQ ID NOS: 158
 29 <170> SOFTWARE: PERL Program
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 240
 33 <212> TYPE: PRT
 34 <213> ORGANISM: Homo sapiens
 36 <220> FEATURE:
 37 <221> NAME/KEY: misc_feature
 38 <223> OTHER INFORMATION: Incyte Clone No: 153831
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 44 His His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu
 45 20 25 30
 46 Gly Leu Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg
 47 35 40 45
 48 Thr Gly Leu Arg Ser Pro Asp Ile Pro Gln Asp Trp Val Ser Phe
 49 50 55 60
 50 Leu Arg Ser Phe Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly Thr
 51 65 70 75
 52 Val Thr Gly Lys Trp Arg Gly Ser His Val Val Gly Leu Leu Thr
 53 80 85 90
 54 Thr Leu Asn Phe Gly Asp Gly Pro Asp Arg Asn Lys Thr Arg Thr
 55 95 100 105

NO!

use separate
<150>, <151> for
each!

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/700,590

DATE: 05/30/2002

TIME: 10:12:26

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

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60 Arg Thr Ala Gly Thr Cys Leu Tyr Phe Ser Ala Val Pro Gly Ile
61      140      145      150
62 Leu Pro Ser Ser Gln Pro Pro Ile Ser Cys Ser Glu Glu Gly Ala
63      155      160      165
64 Gly Asn Ala Thr Leu Ser Pro Arg Met Gly Glu Glu Cys Val Ser
65      170      175      180
66 Val Trp Ser His Glu Gly Leu Val Leu Thr Lys Leu Leu Thr Ser
67      185      190      195
68 Glu Glu Leu Ala Leu Cys Gly Ser Arg Leu Leu Val Leu Gly Ser
69      200      205      210
70 Phe Leu Leu Leu Phe Cys Gly Leu Leu Cys Cys Val Thr Ala Met
71      215      220      225
72 Cys Phe His Pro Arg Arg Glu Ser His Trp Ser Arg Thr Arg Leu
73      230      235      240
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79 <211> LENGTH: 100
80 <212> TYPE: PRT
81 <213> ORGANISM: Homo sapiens
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84 <221> NAME/KEY: misc_feature
85 <223> OTHER INFORMATION: Incyte Clone No: 350629
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91 Pro Gly Lys Leu Asp Glu Glu Met Val Gly Leu Pro Pro His Asp
92      20      25      30
93 Ala Ser Pro Gln Val Thr Phe His Ser Leu Asp Gly Lys Thr Val
94      35      40      45
95 Val Cys Pro His Phe Met Gly Leu Leu Leu Gly Leu Leu Leu Leu
96      50      55      60
97 Leu Thr Leu Ser Val Arg Asn Gln Leu Cys Val Arg Gly Glu Arg
98      65      70      75
99 Gln Leu Ala Glu Thr Leu His Ser Gln Val Lys Glu Lys Ser Gln
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102      95      100
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109 <212> TYPE: PRT
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112 <220> FEATURE:
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114 <223> OTHER INFORMATION: Incyte Clone No: 729171
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/700,590

DATE: 05/30/2002

TIME: 10:12:26

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

119	1	5	10	15											
120	Pro	Glu	Ser	Pro	Val	Gly	Phe	Gly	His	Met	Ser	Thr	Thr	Gly	Cys
121				20						25					30
122	Val	Leu	Asn	Lys	Leu	Phe	Gln	Leu	Pro	Thr	Pro	Pro	Leu	Ser	Arg
123				35						40					45
124	His	Gln	Leu	Lys	Arg	Leu	Glu	Glu	His	Arg	Tyr	Gln	Ser	Ala	Gly
125				50						55					60
126	Arg	Ser	Leu	Leu	Glu	Pro	Leu	Val	Gln	Gly	Tyr	Trp	Glu	Trp	Leu
127				65						70					75
128	Val	Arg	Arg	Val	Pro	Ser	Trp	Ile	Ala	Pro	Asn	Leu	Ile	Thr	Ile
129				80						85					90
130	Ile	Gly	Leu	Ser	Ile	Asn	Ile	Cys	Thr	Thr	Ile	Leu	Leu	Val	Phe
131				95						100					105
132	Tyr	Cys	Pro	Thr	Ala	Thr	Glu	Gln	Ala	Pro	Leu	Trp	Ala	Tyr	Ile
133				110						115					120
134	Ala	Cys	Ala	Cys	Gly	Leu	Phe	Ile	Tyr	Gln	Ser	Leu	Asp	Ala	Ile
135				125						130					135
136	Gly	Gly	Lys	Gln	Ala	Arg	Arg	Thr	Asn	Ser	Ser	Ser	Pro	Leu	Gly
137				140						145					150
138	Glu	Leu	Phe	Asp	His	Gly	Cys	Asp	Ser	Leu	Ser	Thr	Val	Phe	Val
139				155						160					165
140	Val	Leu	Gly	Thr	Cys	Ile	Ala	Val	Gln	Leu	Gly	Thr	Asn	Pro	Asp
141				170						175					180
142	Trp	Met	Phe	Phe	Cys	Cys	Phe	Ala	Gly	Thr	Phe	Met	Phe	Tyr	Cys
143				185						190					195
144	Ala	His	Trp	Gln	Thr	Tyr	Val	Ser	Gly	Thr	Leu	Arg	Phe	Gly	Ile
145				200						205					210
146	Ile	Asp	Val	Thr	Glu	Val	Gln	Ile	Phe	Ile	Ile	Ile	Met	His	Leu
147				215						220					225
148	Leu	Ala	Val	Met	Gly	Gly	Pro	Pro	Phe	Trp	Gln	Ser	Met	Ile	Pro
149				230						235					240
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151				245						250					255
152	Ala	Gly	Thr	Ile	Phe	Pro	Val	Thr	Asn	Tyr	Phe	Arg	Val	Ile	Phe
153				260						265					270
154	Thr	Gly	Gly	Val	Gly	Lys	Asn	Gly	Ser	Thr	Ile	Ala	Gly	Thr	Ser
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156	Val	Leu	Ser	Pro	Phe	Leu	His	Ile	Gly	Ser	Val	Ile	Thr	Leu	Ala
157				290						295					300
158	Ala	Met	Ile	Tyr	Lys	Lys	Ser	Ala	Val	Gln	Leu	Phe	Glu	Lys	His
159				305						310					315
160	Pro	Cys	Leu	Tyr	Ile	Leu	Thr	Phe	Gly	Phe	Val	Ser	Ala	Lys	Ile
161				320						325					330
162	Thr	Asn	Lys	Leu	Val	Val	Ala	His	Met	Thr	Lys	Ser	Glu	Met	His
163				335						340					345
164	Leu	His	Asp	Thr	Ala	Phe	Ile	Gly	Pro	Ala	Leu	Leu	Phe	Leu	Asp
165				350						355					360
166	Gln	Tyr	Phe	Asn	Ser	Phe	Ile	Asp	Glu	Tyr	Ile	Val	Leu	Trp	Ile
167				365						370					375

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/700,590

DATE: 05/30/2002

TIME: 10:12:26

Input Set : A:\pf0526usn.seglist.txt

Output Set: N:\CRF3\05302002\I700590.raw

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169                      380                      385                      390
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171                      395                      400                      405
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174                      410                      415
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178 <211> LENGTH: 224
179 <212> TYPE: PRT
180 <213> ORGANISM: Homo sapiens
182 <220> FEATURE:
183 <221> NAME/KEY: misc_feature
184 <223> OTHER INFORMATION: Incyte Clone No: 1273641
187 <400> SEQUENCE: 4
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189 1                      5                      10                      15
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191                      20                      25                      30
192 Thr Leu Arg Asp Thr Pro Met Met Val His Thr Gly Pro Cys Cys
193                      35                      40                      45
194 Cys Cys Cys Pro Cys Cys Gln Arg Leu Leu Leu Thr Arg Lys Lys
195                      50                      55                      60
196 Leu Gln Leu Leu Met Leu Gly Pro Phe Gln Tyr Ala Phe Leu Lys
197                      65                      70                      75
198 Ile Thr Leu Thr Trp Trp Ala Leu Phe Ser Ser Pro Thr Glu Ser
199                      80                      85                      90
200 Tyr Asp Pro Ala Asp Ile Ser Glu Gly Ser Thr Ala Leu Trp Ile
201                      95                      100                     105
202 Asn Thr Phe Leu Gly Val Ser Thr Leu Leu Ala Leu Trp Thr Leu
203                      110                     115                     120
204 Gly Ile Ile Ser Arg Gln Ala Arg Leu His Leu Gly Glu Gln Asn
205                      125                     130                     135
206 Met Gly Ala Lys Phe Ala Leu Phe Gln Val Leu Leu Ile Leu Thr
207                      140                     145                     150
208 Ala Leu Gln Pro Ser Ile Phe Ser Val Leu Ala Asn Gly Gly Gln
209                      155                     160                     165
210 Ile Ala Cys Ser Pro Pro Tyr Ser Ser Lys Thr Arg Ser Gln Val
211                      170                     175                     180
212 Met Asn Cys His Leu Leu Ile Leu Glu Thr Phe Leu Met Thr Val
213                      185                     190                     195
214 Leu Thr Arg Met Tyr Tyr Arg Arg Lys Asp His Lys Val Gly Tyr
215                      200                     205                     210
216 Glu Thr Phe Ser Ser Pro Asp Leu Asp Leu Asn Leu Lys Ala
217                      215                     220
220 <210> SEQ ID NO: 5
221 <211> LENGTH: 247
222 <212> TYPE: PRT
223 <213> ORGANISM: Homo sapiens
225 <220> FEATURE:

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/700,590

DATE: 05/30/2002

TIME: 10:12:26

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

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226 <221> NAME/KEY: misc_feature
227 <223> OTHER INFORMATION: Incyte Clone No: 1427389
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232 1 5 10 15
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234 20 25 30
235 Arg Val Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser
236 35 40 45
237 Leu Leu Leu Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr
238 50 55 60
239 Asp Arg Ser Asp Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly
240 65 70 75
241 Ala Ala Val Ser Val Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr
242 80 85 90
243 Tyr Lys Leu Leu Lys Lys Ala Asp Glu Gly Leu Ala Ser Leu Ser
244 95 100 105
245 Glu Asp Gly Arg Ser Pro Ile Ser Ile Arg Gln Met Ala Tyr Val
246 110 115 120
247 Ser Gly Leu Ser Phe Gly Ile Ile Ser Gly Val Phe Ser Val Ile
248 125 130 135
249 Asn Ile Leu Ala Asp Ala Leu Gly Pro Gly Val Val Gly Ile His
250 140 145 150
251 Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser Ala Phe Leu Thr Ala
252 155 160 165
253 Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val Val Phe Phe Asp
254 170 175 180
255 Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu Val Val Gly
256 185 190 195
257 Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro Trp Tyr
258 200 205 210
259 Glu Ala Ser Leu Leu Pro Ile Tyr Ala Val Thr Val Ser Met Gly
260 215 220 225
261 Leu Trp Ala Phe Ile Thr Ala Gly Gly Ser Leu Arg Ser Ile Gln
262 230 235 240
263 Arg Ser Leu Leu Cys Lys Asp
264 245
268 <210> SEQ ID NO: 6
269 <211> LENGTH: 72
270 <212> TYPE: PRT
271 <213> ORGANISM: Homo sapiens
273 <220> FEATURE:
274 <221> NAME/KEY: misc_feature
275 <223> OTHER INFORMATION: Incyte Clone No: 1458357
279 <400> SEQUENCE: 6
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281 1 5 10 15
282 Leu Ile Cys Leu Val Thr His Leu Ile Thr Arg Glu Thr Ile Tyr
283 20 25 30

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RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 05/30/2002

PATENT APPLICATION: US/09/700,590

TIME: 10:12:27

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:23; Xaa Pos. 434

Seq#:101; N Pos. 2084,2101,2110,2128,2137,2156,2177,2226,2265,2296,2303

Seq#:101; N Pos. 2310,2325

Seq#:102; N Pos. 1346,1373,1430

Seq#:119; N Pos. 1032,1037,1042

Seq#:120; N Pos. 1893,1896,1899,1906,1911,1921,1926,1927,1928,1929,1932

Seq#:120; N Pos. 1935,1940,1948,1950,1951,1953

Seq#:134; N Pos. 814

VARIABLE LOCATION SUMMARY

PATENT APPLICATION: US/09/700,590

DATE: 05/30/2002

TIME: 10:12:27

Input Set : A:\pf0526usn.seqlist.txt

Output Set: N:\CRF3\05302002\I700590.raw

Use of n's or Xaa's (NEW RULES): ✓

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:23; Xaa Pos. 434
Seq#:101; N Pos. 2084,2101,2110,2128,2137,2156,2177,2226,2265,2296,2303
Seq#:101; N Pos. 2310,2325
Seq#:102; N Pos. 1346,1373,1430
Seq#:119; N Pos. 1032,1037,1042
Seq#:120; N Pos. 1893,1896,1899,1906,1911,1921,1926,1927,1928,1929,1932
Seq#:120; N Pos. 1935,1940,1948,1950,1951,1953
Seq#:134; N Pos. 814

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/700,590

DATE: 05/30/2002

TIME: 10:12:27

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Output Set: N:\CRF3\05302002\I700590.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application Number
L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:25 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:1055 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
L:1055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:420
L:4462 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:101
L:4507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2040
L:4508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2100
L:4509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2160
L:4510 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2220
L:4511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:2280
L:4520 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:102
L:4552 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:1320
L:4553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:1380
L:5166 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:119
L:5193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:1020
L:5202 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:120
L:5244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:1860
L:5245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:1920
L:5737 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:134
L:5761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:780